

Form PTO-1449

Attorney Docket: ST8676US.C



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: Not yet known

Filed: September 22, 2003

Examiner: Not yet known

For: METHOD AND APPARATUS FOR MEASURING THE
CONCENTRATION OF HYDROGEN PEROXIDE IN A FLUID

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| Examiner Initials | Document Number | Date | Name | Class |
|----------------------|--------------------|------------|---------------------|------------|
| ah | 4,427,772 | 01/24/1984 | Kodera et al. | 435/27 |
| | 4,525,265 | 06/25/1985 | Abe et al. | 204/403 |
| | 4,674,879 | 06/23/1987 | Gregorig et al. | 356/301 |
| | 4,857,152 | 08/15/1989 | Armstrong et al. | 204/1 T |
| | 5,157,968 | 10/27/1992 | Zfira | 73/149 |
| | 5,243,858 | 09/14/1993 | Erskine et al. | 73/204.26 |
| | 5,364,510 | 11/15/1994 | Carpio | 204/153.1 |
| | 5,439,569 | 08/08/1995 | Carpio | 204/153.1 |
| | 5,459,568 | 10/17/1995 | Yano et al. | 356/336 |
| ✓ | 5,600,142 | 02/04/1997 | Van Den Berg et al. | 250/339.13 |

| | | | | |
|----|--------------------|------------|----------------|---------|
| OH | 5,847,276 | 12/08/1998 | Mimken et al. | 73/453 |
| | 5,882,590 | 03/16/1999 | Stewart et al. | 422/28 |
| | 6,369,387 | 04/09/2002 | Eckles | 250/343 |
| ↓ | US 2003/0063997 A1 | 04/03/2003 | Fryer et al. | 422/3 |

Other Prior Art (Inc. Author, Title, Date, Pertinent Pages, Etc.)

**Examiner
Initials**

Document

| | |
|----|---|
| OH | U.S. Patent Application Serial No. 10/389,036, filed March 14, 2003, Centanni, entitled: METHOD AND APPARATUS FOR MEASURING CHEMICAL CONCENTRATION IN A FLUID. |
| | U.S. Patent Application Serial No. 10/405,880, filed April 2, 2003, Centanni, entitled: METHOD AND APPARATUS FOR MEASURING CONCENTRATION OF A CHEMICAL COMPONENT IN A GAS MIXTURE. |
| | U.S. Patent Application Serial No. 10/456,378, filed June 6, 2003, Centanni, entitled: METHOD AND APPARATUS FOR FORMULATING AND CONTROLLING CHEMICAL CONCENTRATIONS IN A SOLUTION. |
| | U.S. Patent Application Serial No. 10/456,380, filed June 6, 2003, Centanni, entitled: METHOD AND APPARATUS FOR FORMULATING AND CONTROLLING CHEMICAL CONCENTRATIONS IN A GAS MIXTURE. |
| | Philipp, "Charge Transfer Sensing," 1997. |
| | Wojslaw, "Everything You Wanted to Know About Digitally Programmable Potentiometers," Catalyst Semiconductor, Inc., 10/17/2001, Publication No. 6009. |
| | Kittel, "Introduction to Solid State Physics," Fourth Edition, John Wiley & Sons, Inc., 1971. |
| ↓ | Philipp, "The Charge Transfer Sensor," Sensors Magazine, 10/1999. |
| ↓ | T. J. Buckley et al., "Toroidal Cross Capacitor for Measuring the Dielectric Constant of Gases," Review of Scientific Instruments, Vol. 71, No. 7, July 2000, pp. 2914-2921. |

ah

Gross et al., "The Dielectric Constants of Water Hydrogen Peroxide and Hydrogen Peroxide-Water Mixtures," L. Amer. Chem. Soc., Vol. 72, 1950, pp. 2075-2080.

ah

"Humidity Sensor Theory and Behavior," Psychometrics and Moisture, Honeywell HVAC, November 27, 2002.

Examiner:

Date Considered:

ag Hk

1/5/05

****Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Form PTO-1449
Attorney Docket: ST8676US.CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: 2858

Filed: September 22, 2003

Examiner: Not yet known

For: METHOD AND APPARATUS FOR MEASURING THE
CONCENTRATION OF HYDROGEN PEROXIDE IN A FLUID

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| <u>Examiner Initials</u> | <u>Document Number</u> | <u>Date</u> | <u>Name</u> | <u>Class</u> |
|------------------------------|----------------------------|-------------|---------------|--------------|
| <u>ah</u> | 3,636,444 | 01/18/1972 | Strawn et al. | 324/61 R |
| <u>ah</u> | 3,778,706 | 12/11/1973 | Thompson | 324/61 R |
| <u>ah</u> | 4,219,776 | 08/26/1980 | Arulanandan | 324/323 |

Examiner:

Date Considered:

ag He

1/5/05

****Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449
Attorney Docket: ST8676US.CIP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: 2858

Filed: September 22, 2003

Examiner: Nancy V. Le

For: METHOD AND APPARATUS FOR MEASURING THE
CONCENTRATION OF HYDROGEN PEROXIDE IN A FLUID

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| Examiner Initials | Document Number | Date | Name | Class |
|----------------------|--------------------|------------|-------------------|---------|
| <u>ah</u> | 5,470,754 | 11/28/1995 | Rounbehler et al. | 436/106 |
| <u>ah</u> | 6,614,242 | 09/02/2003 | Matter et al. | 324/698 |

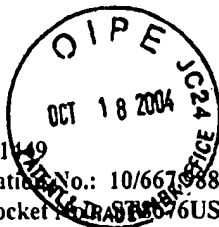
Examiner:

Date Considered:

ah

1/5/05

**Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



Form PTO-1449
U.S. Application No.: 10/667,988
Attorney Docket No.: 10/667,988 US.CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: 2858

Filed: September 22, 2004

Examiner: Nancy V. Le

For: METHOD AND APPARATUS FOR MEASURING THE
CONCENTRATION OF HYDROGEN PEROXIDE IN A FLUID

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| Examiner Initials | Document Number | Date | Name | Class |
|----------------------|--------------------|------------|--------------|---------|
| <u>ah</u> | US 2004/0178802 A1 | 09/16/2004 | Centanni | 324/662 |
| <u>ah</u> | US 2004/0178804 A1 | 09/16/2004 | Allen et al. | 324/662 |

Form PTO-1449

U.S. Application No.: 10/667,988

Attorney Docket No.: ST8676US.CIP

Other Documents (Inc. Author, Title, Date, Pertinent Pages, Etc.)

Examiner

Initials

Document

OH

U.S. Patent Application Serial No. 10/872,227, filed June 18, 2004, Kaiser et al., entitled: METHOD AND APPARATUS FOR MONITORING THE PURITY AND/OR QUALITY OF STEAM.

U.S. Patent Application Serial No. 10/896,609, filed July 21, 2004, Kaiser et al., entitled: METHOD AND APPARATUS FOR REAL TIME MONITORING OF METALLIC CATION CONCENTRATIONS IN A SOLUTION.

U.S. Patent Application Serial No. 10/900,745, filed July 28, 2004, Kaiser et al., entitled: METHOD AND APPARATUS FOR MONITORING THE STATE OF A CHEMICAL SOLUTION FOR DECONTAMINATION OF CHEMICAL AND BIOLOGICAL WARFARE AGENTS.

U.S. Patent Application Serial No. 10/931,186, filed August 31, 2004, Kaiser et al., entitled: METHOD AND APPARATUS FOR MONITORING DETERGENT CONCENTRATION IN A DECONTAMINATION PROCESS.

Examiner:

Date Considered:

**Examiner:

ag th

1/5/05

Initial of reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449

U.S. Application No.: 10/667,988

Attorney Docket No.: ST8676US.CIP

| | | | | |
|-----------|--------------------|------------|--------------|---------|
| <u>ah</u> | US 2004/0029257 A1 | 02/12/2004 | Dutil et al. | 435/266 |
| <u>ah</u> | US 2004/0079395 A1 | 04/29/2004 | Kim et al. | 134/30 |

Examiner:

Date Considered:

ay Hu

1/5/05

****Examiner:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Form PTO-1449
U.S. Application No.: 10/667,988
Attorney Docket No.: ST8676US.CIP



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: 2858

Filed: September 22, 2003

Examiner: Nancy V. Le

For: METHOD AND APPARATUS FOR MEASURING THE
CONCENTRATION OF HYDROGEN PEROXIDE IN A FLUID

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| Examiner Initials | Document Number | Date | Name | Class |
|----------------------|--------------------|------------|---------------------|------------|
| OH | 5,997,685 | 12/07/1999 | Radhamohan et al. | 156/345 |
| | 6,162,409 | 12/19/2000 | Skelley et al. | 423/239.1 |
| | 6,706,648 | 03/16/2004 | Yamazaki et al. | 438/790 |
| | US 2002/0033186 A1 | 03/21/2002 | Verhaverbeke et al. | 134/26 |
| | US 2002/0076492 A1 | 06/20/2002 | Loan et al. | 427/255.28 |
| | US 2002/0111040 A1 | 08/15/2002 | Yamazaki et al. | 438/783 |
| | US 2002/0157686 A1 | 10/31/2002 | Kenny et al. | 134/1.3 |
| | US 2003/0102007 A1 | 06/05/2003 | Kaiser | 134/1 |
| ↓ | US 2003/0157587 A1 | 08/21/2003 | Gomez et al. | 435/30 |



Form PTO-1449
U.S. Application No.: 10/667,988
Attorney Docket No.: ST8676US.CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: 2858

Filed: September 22, 2003

Examiner: Nancy V. Le

For: METHOD AND APPARATUS FOR MEASURING THE CONCENTRATION
OF HYDROGEN PEROXIDE IN A FLUID

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| Examiner Initials | Document Number | Date | Name | Class |
|----------------------|--------------------|------------|-----------------|---------|
| AM | 4,031,742 | 06/28/1977 | Michael et al. | 73/40.7 |
| | 4,509,522 | 04/09/1985 | Manuccia et al. | 128/634 |
| | 5,171,523 | 12/15/1992 | Williams | 422/20 |
| | 6,454,874 | 09/24/2002 | Jacobs et al. | 134/18 |
| | 6,660,231 | 12/09/2003 | Moseley | 422/98 |
| | 2002/0014410 A1 | 02/07/2002 | Silveri et al. | 204/412 |
| ↓ | 2002/0109511 A1 | 08/15/2002 | Frank | 324/663 |

Examiner:

Date Considered:

ag lh

1/5/05

**Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include copy of this
form with next communication to Applicant.



Form PTO-1449

U.S. Application No.: 10/667,988

Attorney Docket No.: ST8676US.CIP

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

In re application of: Sergey A. Korenev et al.

Serial No: 10/667,988

Group No.: 2858

Filed: September 22, 2003

Examiner: Nancy V. Le

For: METHOD AND APPARATUS FOR MEASURING THE CONCENTRATION OF
HYDROGEN PEROXIDE IN A FLUID

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

U.S. Patent Documents

| <u>Examiner Initials</u> | <u>Document Number</u> | <u>Date</u> | <u>Name</u> | <u>Class</u> |
|------------------------------|----------------------------|-------------|---------------|--------------|
| <u>OH</u> | 5,151,660 | 09/29/1992 | Powers et al. | 324/689 |

Examiner:

Date Considered:

ay Hh

1/5/05

**Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609;
Draw line through citation if not in conformance and not considered. Include copy of this
form with next communication to Applicant.